

IN THE CLAIM

Please cancel Claims 1 to 6, without prejudice or disclaimer of the subject matter thereof, and add new claim 7. The new claim 7 is mainly from the combination of the original claims 1 to 5, and adds the features 5 illustrated in the first paragraph in page 5 of the specification, which is mainly related to the description of the output disk 4 and the related mechanism about the elements of 41, 42, 43, 44 and 45. Thereby it is assured that no new matter is added. The relation of the new claim with respect to the original claims are listed in the following REMARK. From 10 it, Examiner can understand the present invention easily.

LIST OF CLAIMS

Claims 1 – 6 (Cancelled)

Claim 7. (New) A piston rod rotary driving device of a screw nail gun; the driving device being installed in a gun head of the screw nail gun; 15 at least one pneumatic motor installed in one end portion of the gun head; the at least one pneumatic motor being capable of being driven by high pressure air,
a cylinder capable of loading high pressure air;
a piston rod in the cylinder, one end of the piston rod having a piston; 20 the piston being actuated by the high pressure air so as to trigger a screw nail to move linearly; another end of the piston rod being driven by the pneumatic motor to rotate the screw nail;
a spindle of the pneumatic motor formed with a rod groove for receiving the piston rod; and the spindle of the pneumatic motor driving an output disk to rotate; the spindle being connected to the piston rod; the 25 piston rod being capable of receiving a nail locking rod for driving a nail;

a planet gear set installed between the spindle of the pneumatic motor and the output disk for transferring rotation power; the planet gear set being formed by a driving gear and a plurality of driven gears; the driving gear being firmly secured to a distal end of the spindle of the 5 pneumatic motor; and the driven gears being pivotally installed on the disk surface of the output disk; the plurality of driven gears being arranged around the driving gear and are driven by the driving gear so as to further drive the output disk to rotate; and

an output disk extending with a neck portion, the neck portion being 10 pivotally installed to a bear seat; a center of the output disk being formed with a polygonal support hole; a bush having a shape like the supporting hole being placed in the supporting hole so as to receive the polygonal piston rod; thereby, the piston rod being movable in the bush; a plurality of pivotal shafts having one ends being pivotally installed on a disk surface 15 of the output disk; another ends of the pivotal shafts being pivotally installed to the driven gears of the planet gear set; the number of the pivotal shafts being equal to that of the driven gears; and thus, the output disk being driven by the planet gear set to rotate and thus to drive the piston rod to rotate.